

WHAT IS CLAIMED IS:

1. A method for the manufacture of a sheet-laminated aluminum profile, comprising the steps of:

5 continuously laminating a sheet material on a plurality of aluminum profiles, and

cutting said sheet material at a position between said aluminum profiles by an electric discharge cutting treatment to form a sheet-laminated aluminum profile.

10 2. The method according to claim 1, wherein said sheet material is cut by said electric discharge cutting treatment while applying a tension stress to a portion of said sheet material to be cut.

15 3. The method according to claim 1, wherein in said step of cutting said sheet material by said electric discharge cutting treatment, the conveyance speeds of aluminum profiles before and after the cutting is set at such a ratio that the conveyance speed of the aluminum profile in the downstream side is higher than the conveyance speed of the aluminum profile in the upstream side.

20 4. The method according to claim 1, wherein said aluminum profile is a coated aluminum profile and said method further comprises a step of subjecting said aluminum profile to the surface modification by an electric discharge treatment prior to the lamination of said sheet material on said profile.

25 5. The method according to claim 1, wherein said aluminum profile is a coated aluminum profile and said method further comprises the steps of subjecting said aluminum profile to

the surface modification by an electric discharge treatment and further subjecting a surface portion of said aluminum profile on which an edge portion of said sheet material is to be laminated to a local electric discharge treatment, prior
5 to the lamination of said sheet material on said profile.

6. An apparatus for the manufacture of a sheet-laminated aluminum profile, comprising:

a conveying means for conveying aluminum profiles,

a sheet material supplying means for continuously
10 supplying a sheet material to a plurality of aluminum profiles being conveyed,

a means for laminating said sheet material on surfaces of said aluminum profiles, and

an electric discharge cutting device for cutting said
15 sheet material laminated on said plurality of aluminum profiles at a position between the aluminum profiles.

7. The apparatus according to claim 6, wherein said conveying means comprises an upstream side conveying means and a downstream side conveying means disposed respectively before
20 and behind said electric discharge cutting device and is capable of regulating the conveyance speed of said downstream side conveying means to be higher than the conveyance speed of said upstream side conveying means.

8. The apparatus according to claim 6, wherein said conveying
25 means further comprises a conveying means for supplying profiles disposed on the upstream side of said sheet material supplying means, and said apparatus further comprises an electric discharge treatment unit for performing the surface

modification of coated aluminum profiles, said electric discharge treatment unit being disposed over a transfer line of said conveying means for supplying profiles.

9. The apparatus according to claim 8, wherein said electric
5 discharge treatment unit for performing the surface modification of coated aluminum profiles comprises an electric discharge surface treatment unit for performing modification of a surface of the coated aluminum profile and a local electric discharge treatment unit for performing
10 modification of a surface portion of the coated aluminum profile on which an edge portion of the sheet material is to be laminated.